

# NOELLE ECKLEY SELIN

Department of Earth, Atmospheric, and Planetary Sciences, Massachusetts Institute of Technology  
77 Massachusetts Avenue (E19-411h), Cambridge, MA 02139-4307 USA, +1 617 324-2592  
[selin@mit.edu](mailto:selin@mit.edu) <http://web.mit.edu/selin/www/>

## **EDUCATION**

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**Ph.D., Earth and Planetary Sciences, Harvard University (2007)**

Atmospheric Chemistry Modeling Group. Thesis title: Mercury in the Global Atmosphere: Chemistry, Deposition, and Land-Atmosphere Interactions. Advisor: Prof. Daniel J. Jacob.

**M.A., Earth and Planetary Sciences, Harvard University (2000)**

**B.A., Environmental Science and Public Policy, Harvard University, magna cum laude with highest honors (2000)**

## **HONORS AND SERVICE**

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Invited participant, Atmospheric Chemistry Colloquium for Emerging Senior Scientists (ACCESS X) (8/09)

Invited participant, Dissertations Initiative for the Advancement of Climate Change Research (DISCCRS) symposium (11/08)

Research featured as American Geophysical Union's "Image of the Week" (12/07)

Dunster House Sally and Cresap Moore Prize (for energy and enthusiasm for interdisciplinary learning) (2000)

Contributing Editor, *Environment: Science and Policy for Sustainable Development*

Peer reviewer for *Atmospheric Chemistry and Physics*, *Environmental Science and Technology*, *Geophysical Research Letters*, *Global Environmental Change*, *Journal of Environment and Development*, *Journal of Geophysical Research-Atmospheres*, *Science of the Total Environment*, *Proceedings of the National Academy of Sciences*, *National Science Foundation*

Member, American Geophysical Union

## **GRANTS AND AWARDS**

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"Air Pollution, Health and Economic Impacts of Global Change Policy and Future Technologies: An Integrated Model Analysis." U.S. Environmental Protection Agency Science to Achieve Results (STAR) Grant, 9/09-9/12 (Co-PI, with Mort Webster), \$600,000.

U.S. Environmental Protection Agency Science to Achieve Results (STAR) Graduate Research Fellowship (2005-7)

National Science Foundation Graduate Research Fellowship (2002-5)

Young Scientists Travel Grant, Arctic Climate Impact Assessment Symposium (2004)

Fulbright Student Award, Denmark (2000-1)

Radcliffe College Elizabeth Cary Agassiz Traveling Fellowship, Harvard University (2000)

Radcliffe College Josephine L. Murray Traveling Fellowship, Harvard University (1999)

Harvard College Research Program Grant (1999)

Environmental Science and Public Policy Thesis Research Grant, Harvard University (1998)

## **PROFESSIONAL EXPERIENCE**

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**RESEARCH SCIENTIST, Center for Global Change Science and Joint Program on the Science and Policy of Global Change, Massachusetts Institute of Technology, Cambridge, MA, USA, 5/09-present.**

**POSTDOCTORAL ASSOCIATE, 11/07-5/09.**

- Research focuses on impacts of air pollution, especially human health, in urban areas, using the MIT Integrated Global Systems Model and the MIT Emissions Prediction and Policy Analysis (EPPA) model. Advisor: Prof. Ronald Prinn.

**GRADUATE RESEARCHER, Atmospheric Chemistry Modeling Group, Department of Earth and Planetary Sciences, Harvard University, Cambridge, MA, USA, 9/02-11/07**

- Developed and evaluated a global 3D model for mercury transport and chemistry in the atmosphere and biosphere.

**TEAM LEADER, WRITER, EDITOR AND ISSUE EXPERT, Earth Negotiations Bulletin and Linkages International Institute for Sustainable Development (IISD), 6/03-12/05**

- Wrote and edited daily print and digital publication for the most prominent United Nations reporting service. Summarized and analyzed negotiations on climate change, ozone depletion and chemicals for a multinational audience.
- Led and participated in international teams of 5-7 writers at conference locations in Europe, Africa, North America, South America and the Caribbean; managed team budgets and logistical staff.

**RESEARCH ASSOCIATE, Initiative on Science and Technology for Sustainability**

**MANAGING EDITOR, Forum on Science and Technology for Sustainability**

**John F. Kennedy School of Government, Harvard University, Cambridge, MA, 9/01-9/02**

- Founding editor of web-based Forum on Science and Technology for Sustainability. Facilitated online and in-person communication between experts and decision-makers on sustainable development.
- Organized and participated in science-policy workshops in developing regions.
- Conducted research on vulnerability to global change; contributing author to Arctic Climate Impact Assessment.

**FULBRIGHT FELLOW**

**European Environment Agency and University of Copenhagen, Copenhagen, Denmark, 9/00-9/01**

- Conducted independent research on environmental policy in the European Union, based on numerous interviews with regulators and policy makers.
- Organized international conference on how expert information and scientific assessments can be more effective for decision-making. Wrote conference report and summary for European Environment Agency.

**RESEARCH FELLOW, Global Environmental Assessment Project**

**John F. Kennedy School of Government, Harvard University, Cambridge, MA, 9/98-9/00**

- Researched and analyzed how information can be produced and used for effective decision-making.
- Conducted original, primary research on air pollution negotiations in Europe, based on on-site interviews with negotiators and analysis of primary documents.

**ENVIRONMENTAL CAREERS ORGANIZATION ASSOCIATE, U.S. Environmental Protection Agency**

**Office of Pollution Prevention and Toxics, Chemical Control Division, Washington, DC, 6/99-8/99**

**Office of International Activities, Washington, DC, 6/98-8/98, 6/97-8/97**

- Conducted scientific and policy analyses for interagency team negotiating global treaty on toxic chemicals.

**INTERN, United States Senate**

**Office of Senator John F. Kerry, Washington, DC, 3/96-6/96**

- Wrote speeches and conducted analyses of health and human services issues.

***PUBLICATIONS***

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***Journal articles (peer-reviewed)***

25. K. M. Nam, **N.E. Selin**, J. M. Reilly, and S. Paltsev. 2009. "Measuring welfare loss caused by air pollution in Europe: A CGE Analysis." *Energy Policy*, submitted.
24. **N.E. Selin**, S. Wu, K.M. Nam, J.M. Reilly, S. Paltsev, R. Prinn and M.D. Webster. 2009. "Global health and economic impacts of future ozone pollution." *Environmental Research Letters*, submitted
23. **N.E. Selin**, E. M. Sunderland, C. D. Knightes, and R. P. Mason. "Source attribution of mercury exposure for U.S. seafood consumers: Implications for policy." *Environmental Health Perspectives*, submitted.
22. **N.E. Selin**, "Global Biogeochemical Cycling of Mercury: A Review." 2009. *Annual Review of Environment and Resources*, in press, doi:10.1146/annurev.environ.051308.084314.
21. O.R. Bullock Jr., D. Atkinson, T. Braverman, K. Civerolo, A. Dastoor, D. Davignon, J-Y. Ku, K. Lohman, T. Myers, R. Park, C. Seigneur, **N.E. Selin**, G. Sistla, and K. Vijayaraghavan. 2009. "An analysis of simulated wet deposition of mercury from the North American Mercury Model Intercomparison Study (NAMMIS)." *Journal of Geophysical Research-Atmospheres*, 114, D08301.

20. S. Strode, L. Jaeglé and **N.E. Selin**. 2009. "Impact of mercury emissions from historical gold and silver mining: Global modeling." *Atmospheric Environment*, 43(12):2012-2017.
19. O.R. Bullock Jr., D. Atkinson, T. Braverman, K. Civerolo, A. Dastoor, D. Davignon, J-Y. Ku, K. Lohman, T. Myers, R. Park, C. Seigneur, **N.E. Selin**, G. Sistla, and K. Vijayaraghavan. 2008. "The North American Mercury Model Intercomparison Study (NAMMIS). Study description and model-to-model comparisons." *Journal of Geophysical Research-Atmospheres*, 113, D17310, doi:10.1029/2008JD009803.
18. **N.E. Selin** and D.J. Jacob. 2008. "Seasonal and spatial patterns of mercury wet deposition in the United States: Constraints on the contribution from North American anthropogenic sources" *Atmospheric Environment*, 42, 5193-5204, doi:10.1016/j.atmosenv.2008.02.069.
17. **N.E. Selin**, D.J. Jacob, R.M. Yantosca, S. Strode, L. Jaeglé, and E.M. Sunderland. 2008. "Global 3-D land-ocean-atmosphere model for mercury: present-day versus pre-industrial cycles and anthropogenic enrichment factors for deposition," *Global Biogeochemical Cycles*, 22, GB2011, doi:10.1029/2007GB003040.
16. H. Selin and **N.E. Selin**. 2008. "The Role of Indigenous Peoples in International Environmental Cooperation: Arctic Management of Toxic Substances." *Review of European Community and International Environmental Law*, 17(1):72-83, doi:10.1111/j.1467-9388.2008.00589.x.
15. S. Strode, L. Jaeglé, D.A. Jaffe, P.C. Swartzendruber, **N.E. Selin**, C. Holmes, and R.M. Yantosca. "Trans-Pacific transport of mercury." *Journal of Geophysical Research Atmospheres*, 113, D15305, doi:10.1029/2007GB003040.
14. E. M. Sunderland, M. Cohen, **N.E. Selin**, and G.L. Chmura. 2008. "Reconciling models and measurements to assess trends in atmospheric mercury deposition." *Environmental Pollution*, 156:526-535, doi:10.1016/j.envpol.2008.01.021.
13. **N.E. Selin**, D.J. Jacob, R.J. Park, R.M. Yantosca, S. Strode, L. Jaeglé and D. Jaffe, 2007. "Chemical cycling and deposition of atmospheric mercury: Global constraints from observations." *Journal of Geophysical Research-Atmospheres*, 112, D02308, doi:10.1029/2006JD007450.
12. S. Strode, L. Jaeglé, **N.E. Selin**, D.J. Jacob, R.J. Park, R.M. Yantosca, R.P. Mason, and F. Slemr, 2007. Air-Sea Exchange in the Global Mercury Cycle. *Global Biogeochemical Cycles*, 21, GB1017, doi:10.1029/2006GB002766.
11. **N.E. Selin** and H. Selin. 2006. "Global Politics of Mercury Pollution: The Need for a Multi-Scale Approach." *Review of European Community and International Environmental Law* 15(3):258-269
10. P.C. Swartzendruber, D.A. Jaffe, E.M. Prestbo, P. Weiss-Penzias, **N.E. Selin**, R. Park, D. Jacob, S. Strode, and L. Jaeglé, 2006. "Observations of Reactive Gaseous Mercury in the Free-Troposphere at the Mt. Bachelor Observatory." *Journal of Geophysical Research-Atmospheres*, 111, D24301, doi:10.1029/2006JD007415.
9. **N.E. Selin**. 2005. "Mercury Rising: Is Global Action Needed To Protect Human Health and the Environment?" *Environment* 47(1):22-35.
8. **N. Eckley** and H. Selin. 2004. "All Talk, Little Action: Precaution and its Effects on European Chemicals Regulation." *Journal of European Public Policy* 11:1 February 2004, 78-105.
7. D. Cash, W. Clark, F. Alcock, N. Dickson, **N. Eckley**, D. Guston, J. Jäger, and R. Mitchell. 2003. "Knowledge Systems for Sustainable Development." *Proceedings of the National Academies of Sciences (PNAS)* 100(14):8086-8091.
6. B. L. Turner II, R. E. Kasperson, P. Matson, J. J. McCarthy, R. W. Corell, L. Christensen, **N. Eckley**, J. X. Kasperson, A. Luers, M. L. Martello, C. Polsky, A. Pulsipher, and A. Schiller. 2003. "A Framework for Vulnerability Analysis in Sustainability Science." *Proceedings of the National Academies of Sciences (PNAS)* 100(14):8074-8079.
5. B. L. Turner II, P.A. Matson, J. J. McCarthy, R. W. Corell, L. Christensen, **N. Eckley**, G. Hovelsrud-Broda, J. X. Kasperson, R. E. Kasperson, A. Luers, M. L. Martello, S. Mathiesen, R. Naylor, C. Polsky, A. Pulsipher, A. Schiller, H. Selin, and N. Tyler. 2003. "Illustrating the Coupled Human-Environment System for Vulnerability Analysis: Three Case Studies." *Proceedings of the National Academies of Sciences (PNAS)* 100(14):8080-8085.
4. H. Selin and **N. Eckley**. 2003. "Science, Politics, and Persistent Organic Pollutants: Scientific Assessments and their Role in International Environmental Negotiations." *International Environmental Agreements: Politics, Law and Economics* 3(1)17-42.

3. **N. Eckley**. 2002. "Dependable Dynamism: Lessons for Designing Scientific Assessment Processes in Consensus Negotiations." *Global Environmental Change* 12:15-23.
2. **N. Eckley**. 2001. "Traveling Toxics: The Science, Policy, and Management of Persistent Organic Pollutants." *Environment* 43(7):24-36.
1. B. D. Rodan, D. W. Pennington, **N. Eckley**, and R. S. Boethling. 1999. "Screening for Persistent Organic Pollutants: Techniques to Provide a Scientific Basis for POPs Criteria in International Negotiations." *Environmental Science and Technology* 33: 3482-3488.

### **Book Chapters**

5. **N.E. Selin**, "Atmospheric Chemistry, Modeling and Biogeochemistry of Mercury." 2009. Book chapter in: M.S. Bank, ed. *Mercury in the Environment: Pattern and Process*. Berkeley, CA: University of California Press, submitted.
4. E.M. Sunderland, C.D. Knightes, and **N.E. Selin**. 2009. "An Overview of Mercury Pollution: A Systems Level Perspective." Book chapter in: M.S. Bank, ed. *Mercury in the Environment: Pattern and Process*. Berkeley, CA: University of California Press, submitted.
3. L. Jaeglé, S.A. Strode, **N.E. Selin**, and D.J. Jacob. 2009. "The GEOS-Chem model." Book chapter in: N. Pirrone and R. Mason, eds. *Mercury Fate and Transport in the Global Atmosphere*. New York: Springer.
2. **N.E. Selin**. 2006. "From Regional to Global Information: Assessment of Persistent Organic Pollutants (POPs)." Book chapter in: Ronald B. Mitchell, William C. Clark, David W. Cash, and Frank Alcock, eds. *Global Environmental Assessments: Information, Institutions, and Influence*. Cambridge, MA: MIT Press.
1. **N.E. Selin**. 2005. "Applying Assessment Lessons to New Challenges: Sulfur and POPs." Book chapter in: Alex Farrell and Jill Jäger, eds. *Assessments of Regional and Global Environmental Risks: Designing Processes for the Effective Use of Science in Decisionmaking*. Washington, DC: Resources for the Future.

### **Other Publications**

18. K. M. Nam, **N.E. Selin**, J. M. Reilly, and S. Paltsev. 2009. "Measuring welfare loss caused by air pollution in Europe: A CGE Analysis." MIT Joint Program on the Science and Policy of Global Change, Report 178, August 2009.
17. **N.E. Selin**, S. Wu, K.M. Nam, J.M. Reilly, S. Paltsev, R. Prinn and M.D. Webster. 2009. "Global health and economic impacts of future ozone pollution." MIT Joint Program on the Science and Policy of Global Change, Report 177, August 2009.
16. **N. E. Selin**. 2009. "Atmospheric Brown Cloud" and "Carbon Sequestration," *Encyclopaedia Britannica*, forthcoming.
15. L. Jaeglé, D. J. Jacob, S.A. Strode, and **N.E. Selin**. 2008. "The GEOS-Chem model." In: *Mercury Fate and Transport in the Global Atmosphere: Measurements, Models and Policy Implications*. N. Pirrone and R. Mason, eds. Interim Report of the UNEP Global Mercury Partnership Mercury Air Transport and Fate Research partnership area. United Nations Environment Programme, 14 July.
14. **N. E. Selin**, "Alternative Energy," "Wind Power," and "Tidal Power," *Encyclopaedia Britannica*, 2008.
13. H. Selin and **N. E. Selin**. 2007. "State must push feds to get tough on mercury pollution." *San Jose Mercury News* (op-ed), 19 July.
12. **N. E. Selin** (Contributor), *GEO Year Book 2004*, United Nations Environment Programme (UNEP), Division of Early Warning and Assessment (DEWA). Nairobi: 2004.
11. J. J. McCarthy and M. L. Martello, et al. (**N. E. Selin**, Contributing Author) "Climate Change in the Context of Multiple Stressors and Resilience." Chapter 17 in *Arctic Climate Impact Assessment (ACIA)*. 2004.
10. **N. Eckley** and H. Selin. 2003. "The Arctic at Risk from Pollution: *Arctic Pollution 2002*." *Environment* (Report Review) 45(7):37-40.
9. **N. Eckley**. 2003. "The Precautionary Principle in the 20th Century: Late Lessons from Early Warnings (book review)." *Environment* 45(3):34.

8. **N. Eckley** (Contributor), *GEO Year Book 2003*, United Nations Environment Programme (UNEP), Division of Early Warning and Assessment (DEWA). Nairobi: 2003.
7. D. W. Cash, W.C. Clark, F. Alcock, N. Dickson, **N. Eckley**, and J. Jäger. 2002. "Salience, Credibility, Legitimacy and Boundaries: Linking Research, Assessment and Decision-Making." John F. Kennedy School of Government, Harvard University, Faculty Research Working Papers Series. RWP02-046, November.
6. B. D. Rodan, D. W. Pennington, **N. Eckley**, and R. S. Boethling. 2002. "The Addition of Chemicals--A Living Agreement." Chapter 9 in: B. D. Rodan, ed. *The Foundation for Global Action on Persistent Organic Pollutants: A United States Perspective*. Washington, D.C.: U.S. Environmental Protection Agency, Office of Research and Development. EPA/600/P-01/003F, NCEA-I-1200. March.
5. **N. Eckley**, W. C. Clark, A. Farrell, J. Jäger, and D. Stanners. 2001. "Designing Effective Assessments: The Role of Participation, Science and Governance, and Focus." Summary of a Workshop Co-organized by the Global Environmental Assessment Project and the European Environment Agency, 1-3 March 2001, Copenhagen, Denmark.
4. **N. Eckley**. 2001. "Designing Effective Assessments: The Role of Participation, Science and Governance, and Focus." Report from a Workshop Co-organized by the Global Environmental Assessment Project and the European Environment Agency, 1-3 March 2001. Expert's Corner, Environmental Issue Report No. 26. Copenhagen, Denmark: European Environment Agency. Also published as Research and Assessment Systems for Sustainability Program Discussion Paper 2001-16. Cambridge, MA: Environment and Natural Resources Program, Belfer Center for Science and International Affairs, Kennedy School of Government, Harvard University.
3. **N. Eckley**. 2000. "From Regional to Global Assessment: Learning From Persistent Organic Pollutants." Belfer Center for Science and International Affairs (BCSIA) Discussion Paper 2000-23, John F. Kennedy School of Government, Harvard University, October 2000.
2. **N. Eckley**. 1999. "Drawing Lessons about Science-Policy Institutions: Persistent Organic Pollutants under the LRTAP Convention." ENRP Discussion Paper E-99-11, John F. Kennedy School of Government, Harvard University, October 1999.
1. B. D. Rodan, **N. Eckley**, and R. S. Boethling. 1998. "International Action on Persistent Organic Pollutants: Developing Science-Based Screening Criteria." Proceedings of the Subregional Awareness Raising Workshop on Persistent Organic Pollutants (POPs). Cartagena, Colombia: Inter-Organization Programme for the Sound Management of Chemicals (IOMC), 27-30 January 1998, pp. 75-83.

### ***SELECTED PRESENTATIONS AND POSTERS***

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- "Assessing Uncertainties in Modeling Aerosol Health Impacts." Poster at: Atmospheric Chemistry Gordon Research Conference, Waterville Valley, NH, 23 August 2009.
- "Global Biogeochemical Cycling of Mercury: Insights from Modeling." Atmospheric Chemistry Colloquium for Emerging Senior Scientists (ACCESS X), Brookhaven National Laboratory, NY, 22 August 2009.
- "Global Impacts of Air Pollution: Mercury, Ozone and Particulate Matter." MIT Atmospheric Sciences Seminar, Cambridge, MA, 13 April 2009.
- "Global Health and Economic Impacts of Future Ozone Pollution." Poster presentation at 4<sup>th</sup> GEOS-Chem Scientific and Users' Meeting, Cambridge, MA, 8 April 2009.
- "Evaluating mercury exposure and source attribution using GEOS-Chem." Oral presentation at 4<sup>th</sup> GEOS-Chem Scientific and Users' Meeting, Cambridge, MA, 8 April 2009.
- "Global Health and Economic Impacts of Future Ozone Pollution." Poster presentation at Copenhagen Climate Congress, 11 March 2009.
- "Source attribution of mercury exposure for U.S. seafood consumers: Implications for policy." Oral presentation, 2008 AGU Fall Meeting, San Francisco, California, 19 December 2008, Eos Trans. AGU, 89(53), Fall Meet. Suppl., Abstract A51L-07.
- "Mercury Rising...and Falling: What Climate Scientists can learn from Hg Pollution." Invited presentation at Dissertations Initiative for the Advancement of Climate Change Research (DISCCRS) Symposium, Mesa, AZ, 3 November 2008.

- "What is a Persistent Organic Pollutant (POP)?" Invited presentation at: Atmospheric Chemistry, Climate and Transboundary Air Pollution, U.S. National Academy of Sciences/National Research Council Workshop for Study on the Significance of International Transport of Air Pollutants, Washington, DC, 9 June 2008.
- "Global Cycling and Deposition of Mercury: Constraints on the contribution from North American anthropogenic sources," Poster at: Atmospheric Chemistry, Climate and Transboundary Air Pollution, U.S. National Academy of Sciences/National Research Council Workshop for Study on the Significance of International Transport of Air Pollutants, Washington, DC, 9 June 2008.
- "Lives and Careers in Science, Technology and Society." Invited panelist at Harvard University, 4 February 2008.
- "Mercury in the Atmosphere, Biosphere and Policy Sphere: Constraints from a global 3D land-ocean-atmosphere model on mercury sources, cycling and deposition." Invited presentation at Princeton University, Program in Science, Technology, and Environmental Policy, 24 May 2007.
- "Global Mercury Science and Policy: Assessing the Salience, Credibility and Legitimacy of the Global Mercury Assessment," Oral presentation, 2006 AGU Fall Meeting, San Francisco, California, 10 December 2006, Eos Trans. AGU, Fall Meet Suppl., Abstract PA24A-05.
- "Chemical Cycling and Deposition of Atmospheric Mercury: Global Constraints from Observations" Poster at the 2006 EPA Graduate Fellowship Conference, 24-27 September 2006, Washington, DC, USA.
- "Estimating Global Source Influence on U.S. Mercury Deposition using GEOS-Chem." Poster at the Eighth International Conference on Mercury as a Global Pollutant, 7 August 2006, Madison, WI, USA.
- "Constraints from RGM Measurements on Global Mercury Chemistry." Oral presentation at the Eighth International Conference on Mercury as a Global Pollutant, 10 August 2006, Madison, WI, USA.
- "The Atmospheric Cycle of Mercury and the Role of Coal-Based Emissions." Invited presentation at Environmental Defense Science Day, 11 May 2006.
- "Mercurial Politics: Global and Regional Interplay and Mercury Policymaking." 2005 Berlin Conference on the Human Dimensions of Global Environmental Change, 1-2 December 2005.
- "Mercury in the Arctic Ecosystem: Understanding Pathways of Contamination through Atmosphere and Biosphere." ACIA International Scientific Symposium on Climate Change in the Arctic, Reykjavik, Iceland, 10 November 2004.
- "Intercontinental Transport of Mercury: Modeling Pathways of Contamination with GEOS-CHEM," Invited presentation, Second Workshop on the Intercontinental Transport and Climatic Effects of Air Pollutants (ICAP), Chapel Hill, North Carolina, 20 October 2004.
- "Global Modeling of Mercury in the Atmosphere using the GEOS-CHEM Model." Linköping University, Department of Water and Environmental Studies, Linköping, Sweden, 30 January 2004
- "The Arctic Vulnerability Study and Environmental Pollutants: A Strategy for Future Research and Analysis." The Second International Symposium on Environmental Pollution of the Arctic. Rovaniemi, Finland, October 1-4, 2002. AMAP Report 2002:2, p. O-046. (joint presentation with Henrik Selin)
- "The Arctic Vulnerability Study." Invited Presentation at the Institute for Arctic Studies, May 2002, Dartmouth College. (joint presentation with Henrik Selin)
- "Globalizing Information: Persistent Organic Pollutants from Regional to Global Arenas." Presentation at the Open Meeting of the Global Environmental Change Research Community, Rio de Janeiro, 6-8 October 2001.
- "Science, Politics, and POPs." Presentation at 5th Nordic Environmental Research Conference, Århus, Denmark, 14-16 June 2001. (joint presentation with Henrik Selin)
- "Scientific Assessment and Persistent Organic Pollutants." Invited presentation at the Copenhagen Global Change Institute (COGCI) seminar, University of Copenhagen, Denmark, December 2000.
- "Modeling Global Transport of Persistent Organic Pollutants (POPs)." Presentation at the Copenhagen Global Change Institute (COGCI) seminar, University of Copenhagen, Denmark, November 2000.
- "Effectiveness and Scientific Assessment: Lessons for the European Environment Agency from the Global Environmental Assessment Project." Invited presentation for the European Environment Agency Scientific Committee, October 2000.
- "International Action on Persistent Organic Pollutants: Developing Science-Based Screening Criteria." Presentation to U.S. EPA Assistant Administrators, Washington, DC, September 1997.

## ***TEACHING EXPERIENCE***

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### ***Teaching Fellowships***

- “Environmental Politics” (Environmental Science and Public Policy 78), Fall 2006 (2 sections); Spring 2006 (2 sections), Fall 2004 (1 section), Fall 2003 (1 section)
- “Introduction to Environmental Science and Public Policy” (Environmental Science and Public Policy 10), Spring 2005 (1 section)
- “Atmospheric Chemistry” (Earth and Planetary Sciences 133), Spring 2004 (1 section)

### ***Guest Lectures***

- “Comparative Environmental Politics and Policy,” Brown University (International Relations 180.08), 1 March 2007 (Topic: Precaution, Risk and Science in Policy Making)
- “Comparative Environmental Politics and Policy,” University of New Hampshire (Political Science 751/851), 21 March 2006 (Topic: Precaution, Risk and Science in Policy Making)
- “Politics of Global Resources,” University of New Hampshire (Political Science 567), 1 February 2005 (Topic: Global Commons Debates)
- “U.S. and Comparative Environmental Politics,” University of New Hampshire (Political Science 798/898), 1 February 2005 (Topic: Precaution, Risk and Science in Policy Making)
- “Global Environmental Policy and Negotiation,” Boston University (International Relations/Environmental Analysis 594), 16 October 2003 (Topic: The Montreal Protocol: Ozone Science and Policy)

### ***Other Teaching Experience***

- Non-Resident Tutor, Leverett House, Harvard University, in Earth and Planetary Sciences and Environmental Science and Public Policy. Advisor to six undergraduate students (2005-2007).
- Peer Tutor, Harvard University Bureau of Study Counsel, 9/97-6/00 for courses: “The Atmosphere” (Science A-30); “Introduction to Environmental Science–Atmosphere, Ocean, and Biosphere” (Earth and Planetary Sciences 5); “Principles of Chemistry” (Chemistry 10); “Introductory Calculus” (Mathematics 1a/1b)
- Research mentor, undergraduate thesis research in Earth and Planetary Sciences, Harvard University (2003-2005)